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PIEZOELECTRIC ELEMENT MATERIAL AND ITS PRODUCTION

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Inventor:

TAKAHASHI KEIICHI; others: 02

Applicant:

MATSUSHITA ELECTRIC IND CO LTD

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Abstract of JP7277822

PURPOSE:To enable sintering even at a low temp. by using Pb-contg. ceramics having a specified average grain size and a specified grain size distribution and to obtain a piezoelectric element material having improved piezoelectric characteristics of piezoelectric ceramics by controlling the fine structure of the Pb-contg. ceramics. CONSTITUTION:This piezoelectric element material contains Pb-contg. ceramics having 0.5-5mum average grain size and a grain size distribution in which >=90wt.% grains are within the range of 0.5-5mum. The basic compsn. of this material is preferably represented by the general formula Pb1-xSrx(Mg1/3 Nb2/3)aTibZrcO3 (where a+b+c=1, 0.20<=a<=0.30, 0.30<=b<=0.45, 0.30<=c<=0.40 and 0.01<=x<=0.20) and 0.01-0.2wt.% Fe2O3 is preferably added to the basic compsn.

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